

19990810.qrp v01_n544.qrl.990810

Date: Tue, 10 Aug 1999 19:03:03 EDT

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 1544

QRP-L Digest 1544

Topics covered in this issue include:

- 1) [47223] Re: Portable vertical idea
by Bruce Muscolino <w6toy@erols.com>
- 2) [47224] Re: [47199] BNC's for RG8 and "D" punches
by Doug Faunt N6TQS +1-510-655-8604 <faunt@netcom.com>
- 3) [47225] German Members
by "Ron Polityka" <wb3aal@talon.net>
- 4) [47226] Re: Enclosure material for antenna tuners?
by k5zty@juno.com
- 5) [47227] Chassis/ enclosure holes
by Pete Burbank <plburbank@kih.net>
- 6) [47228] RE: WW (wire-wrap) Yes or No? (LONG)
by "Ed Tanton" <n4xy@att.net>
- 7) [47229] Re:VE3DNL KITS
by Carol Palmer <ve3eza@sympatico.ca>
- 8) [47230] re: Wire wrap
by Charles Kadesch <chas@digizen.net>
- 9) [47231] Re: Portable vertical idea
by Francis Flynn <fflynn@together.net>
- 10) [47232] Re: [What's 30dB Amongst Friends?]
by Roy Lincoln <wa4dou@usa.net>
- 11) [47233] K2K Special Event
by "David Hurley,n2zhy" <n2zhy@amsat.org>
- 12) [47234] Re: Portable vertical idea
by w4bws@juno.com
- 13) [47235] my WW posting- an "oops" or 2...
by "Ed Tanton" <n4xy@att.net>
- 14) [47236] another ham class
by Tim Pettibone <k5oi@zianet.com>
- 15) [47237] Still for Sale
by Bradford D Bilbrey <bigdawg74@juno.com>
- 16) [47238] Re: Music and CW
by barry kirkwood <bjk@ihug.co.nz>
- 17) [47239] K5FO Estate Sale Update
by "Chuck Adams K7Q0" <adams@ticnet.com>
- 18) [47240] Wrangell Island July 99
by DONALD I ROHER <donroher@juno.com>
- 19) [47241] RS telephone Interference Filter 43-150

- by k5xu@concentric.net
- 20) [47242] MFJ Sales
by k5xu@concentric.net
- 21) [47243] Re: RS telephone Interference Filter 43-150
by RangerSF5@aol.com
- 22) [47244] FOXHUNT 2000 pre-announcement
by "Paul R. Valko" <prvalko@oakland.edu>
- 23) [47245] Re: [What's 30dB Amongst Friends?]
by DONALD I ROHER <donroher@juno.com>
- 24) [47246] Re: QRP Afield: Rules/ Announcement
by "Steve Yates, AA5TB" <aa5tb@swbell.net>
- 25) [47247] Re: Enclosure material for antenna tuners?
by "Steve Yates, AA5TB" <aa5tb@swbell.net>
- 26) [47248] Re: WW (wire-wrap) Yes or No? (LONG)
by "Steve Yates, AA5TB" <aa5tb@swbell.net>
- 27) [47249] FS: OUTBACKER PERTHPLUS
by "Dick Schneider" <dschneider2@uswest.net>
- 28) [47250] FS: JPS ANC4 ANTENNA NOISE CANCELLER
by "Dick Schneider" <dschneider2@uswest.net>
- 29) [47251] FS: HTX-100 10 M SSB/CW
by "Dick Schneider" <dschneider2@uswest.net>
- 30) [47252] FS: PALOMAR R-X NOISE BRIDGE
by "Dick Schneider" <dschneider2@uswest.net>
- 31) [47253] Wire / Rope Ant... I did it... sort of
by hamjoel@juno.com
- 32) [47254] FS: CUSHCRAFT R-7 VERTICAL 40-10 INC WARC
by "Dick Schneider" <dschneider2@uswest.net>
- 33) [47255] FS: KENWOOD PS52 PWR SUP
by "Dick Schneider" <dschneider2@uswest.net>
- 34) [47256] FS: TS-50s/AT-50s and accessories
by mwattcpa@earthlink.net (Marty Watt)
- 35) [47257] ST. Louis Vertical
by Addi Pittman <cornea@vsta.com>
- 36) [47258] RS-Component Tester-22-330
by David Shalita <af389@lafn.org>
- 37) [47259] Re: RS telephone Interference Filter 43-150
by Bob Nielsen <nielsen@primenet.com>
- 38) [47260] Re: Portable vertical idea
by Monte Stark <ku7y@dri.edu>
- 39) [47261] RE: Enclosure material for antenna tuners?
by "Ed Tanton" <n4xy@att.net>
- 40) [47262] Correction: MFJ Articial Ground = Series L-C, NOT L-Network
by aweiss@usd.edu (Ade Weiss W0RSP)
- 41) [47263] Web page URL change
by Jess Gypin <jessqrp@earthlink.net>
- 42) [47264] Using a Re-Gen as a Transmitter
by "Randy Jouett" <rules@bellsouth.net>
- 43) [47265] Regen Madness: Questions on MB4 and HF9

- by Bill Meara <n2cqr@erols.com>
- 44) [47266] Misc older publications FS
by "Ken Simpson" <W8EK@fdt.net>
- 45) [47267] Re: Enclosure material for antenna tuners?
by "Steve Yates, AA5TB" <aa5tb@swbell.net>
- 46) [47268] Listing
by Jess Gypin <jessqrp@earthlink.net>
- 47) [47269]
by Jess Gypin <jessqrp@earthlink.net>
- 48) [47270] Hallicrafters SR-46 info/opinion please...
by Greg Weinfurtner <weinfurt@oak.cats.ohiou.edu>
- 49) [47271] Re: Listing
by Shephed@aol.com
- 50) [47272] SWORDS Fox Hunt Team 99
by Shephed@aol.com
- 51) [47273] Re: RS telephone Interference Filter 43-150
by "Ed Hare, W1RFI" <w1rfi@arrl.net>
- 52) [47274] Re: BNC's for RG8 and "D" punches
by Karl.Kanalz@optelinc.com
- 53) [47275] RS-Diodes-Transistors-Tester-22-330
by David Shalita <af389@lafn.org>
- 54) [47276] Re: RS-Diodes-Transistors-Tester-22-330
by "Randy Jouett" <rules@bellsouth.net>
- 55) [47277] DSW enclosure- images
by Bensondj@aol.com
- 56) [47278] SB-104 extender card
by Andy C Meng <andymeng@juno.com>
- 57) [47279] Re: K2K Special Event
by "BC" <bcrow@powerlink.net>
- 58) [47280] Transmission Line Questions
by "Joel Kluender, NF9K" <nf9k@eudoramail.com>
- 59) [47281] Transmission Line Questions
by "Joel Kluender, NF9K" <nf9k@eudoramail.com>
- 60) [47282] [Fwd: Re: Portable vertical idea]
by Bruce Muscolino <w6toy@erols.com>
- 61) [47283] EE texts, farewell to QRP-L
by Allan G Taylor <k7gt@arrl.net>
- 62) [47284] Eclipse stuff-OK it's not QRP
by "Ed Tanton" <n4xy@att.net>
- 63) [47285] RE: Enclosure material for antenna tuners?
by "Ed Tanton" <n4xy@att.net>
- 64) [47286] IC-251 manual needed
by applitech@mcg.net (Claton Cadmus)
- 65) [47287] Inductors are Gone!
by Andy Fox <foxes@theriver.com>
- 66) [47288] QRP-PLUS Mod Error
by Larry East <w1hue@amsat.org>
- 67) [47289] ARRL Tech Info Web Pages

by "Ed Hare, W1RFI" <w1rfi@arrl.net>
68) [47290] Re: [Fwd: Re: Portable vertical idea]
by Bruce Muscolino <w6toy@erols.com>
69) [47291] OKIE FOX HUNT TEAM
by "DONALD G. DORN" <DDORN@CWIS.NET>
70) [47292] Address for Jade Products?
by "Wilford D. Lindsey" <70511.3041@compuserve.com>
71) [47293] Re: Address for Jade Products?
by Bill Jones <kd7s@psnw.com>
72) [47294] F/S Swap
by K4NK@aol.com

Date: Mon, 09 Aug 1999 19:15:17 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: hosinsky@royac.iac.es
Cc: QRP-L@Lehigh.edu
Subject: [47223] Re: Portable vertical idea
Message-ID: <37AF6105.E0F@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Goran,

One of the oldest tricks in the Antenna Engineering book is to make a vertical dipole from RG58/U coax. One-half wavelength is measured and a small hole is made in the braid. The center conductor is pulled through the small hole leaving a quarter wave wire and a quarter wave shield! The feedline is already attached. Tape it to your pole and get on the air!

73

Date: Mon, 9 Aug 1999 16:25:05 -0700 (PDT)
From: Doug Faunt N6TQS +1-510-655-8604 <faunt@netcom.com>
To: qrp-l@Lehigh.EDU
Subject: [47224] Re: [47199] BNC's for RG8 and "D" punches
Message-ID: <199908092325.QAA19038@netcom13.netcom.com>

Date: Mon, 9 Aug 1999 10:09:00 -0700 (PDT)
From: Monte Stark <ku7y@dri.edu>

Hi all,

.500 "D" punch by Greenlee can be had from Newark for \$161.09.
.769 "Double D" punch by Greenlee, same source is \$188.67.

Several seizes are available.

Local discount tool supplier can get them for about \$15 less.

Given these prices, which I'd looked at recently myself, does anyone know of a source of templates for the appropriate size D-shaped holes?

I don't mind filing out holes to the correct shape, but laying out the hole is a pain, and a set of templates would make this a lot easier.

I have one of the 1/2 in. D-punches, bought back when they were semi-reasonable, but there are other sizes I'd like to have.

73, doug

Date: Mon, 9 Aug 1999 20:05:26 -0400
From: "Ron Polityka" <wb3aal@talon.net>
To: "QRP-L" <grp-l@Lehigh.EDU>
Subject: [47225] German Members
Message-ID: <015801bee2c4\$0d1993c0\$48e508cf@wb3aal>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Just some food for thought.

Can any of the German members of QRP-L find out if someone can get the call Y2K?

That would be a great call for next year.

72 & 73
Good DXing

Ron Polityka
de WB3AAL
wb3aal@talon.net

vvv Eastern Pennsylvania QRP Web Page vvv

http://www.kpsnet.com/wb3aal/Start_Page.htm
Eastern Pennsylvania QRP Club Call --> N3EPA

EPA QRP #1	NJ QRP #179
KL7 QRP # 309	G-QRP # 3031
ARCI QRP # 5318	10 - X #13173
NorCal #	Zombie #625
ARS # 380	Bumblebee #15

SETI @ Home Project
<http://setiathome.ssl.berkeley.edu>

Date: Sun, 8 Aug 1999 19:19:36 -0500
From: k5zty@juno.com
To: qrp-1@lehigh.edu
Subject: [47226] Re: Enclosure material for antenna tuners?
Message-ID: <19990809.191623.6558.0.k5zty@juno.com>

Aren't all commercial tuners in metal cases??? There isn't 2 coil diameters distance from coil to case in them.

Bill, K5ZTY
Houston, TX

Get the Internet just the way you want it.
Free software, free e-mail, and free Internet access for a month!
Try Juno Web: <http://dl.www.juno.com/dynoget/tagj>.

Date: Mon, 09 Aug 1999 20:22:52 -0400
From: Pete Burbank <plburbank@kih.net>
To: <qrp-1@Lehigh.EDU>
Subject: [47227] Chassis/ enclosure holes
Message-ID: <3.0.32.19990809202244.0072a088@kih.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

A small selection of drill bits and a few files can make most chassis holes, be it a DB-25 or a D shaped cord fitting.
A good practice is to whack out pieces of a junk chassis and use those pieces for very accurate templates. Simply line the template up on what you are building and scribe an outline (inside) with a sharp tool.

Keep these templates in a drawer of your toolbox and maybe consult construction practices in most ancient ARRL handbooks. Sadly, I know or can perceive that many do not have handbooks and strangely...some people actually SELL them...am I on the right planet??

72/3/88

Pete NV4V vvvvvvvvvvvvvvvv

Date: Mon, 9 Aug 1999 20:34:10 -0400
From: "Ed Tanton" <n4xy@att.net>
To: <k6qq@hdo.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [47228] RE: WW (wire-wrap) Yes or No? (LONG)
Message-ID: <NBBBJDEEIFDDANGEGHLBIEIMGIAA.n4xy@att.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hello All... Indeed WW is a very reliable connection. I cannot quote the number of the source publication, but it is my understanding that WW has long been approved (under possibly certain limited circumstances) by NASA for use in spacecraft.

But before we all get carried away about how it's "better" than soldering, I would like to point out that what that refers to is a statistical improvement. Meaning that, for some finite number of connections, there will be a higher percentage of failures-by experienced assemblers-in solder joints vs WW.

What does that mean to US? IF you have the capability to perform good soldering techniques AND good WW techniques; and IF your project lends itself to WW-as opposed to a PC board project, for example; and IF your project's specifications/limitations/operating parameters are within those of WW layout; THEN WW would be MUCH better for you than a soldered breadboard. If you are GOOD at WW techniques (layout, component mounting, I/O connections, and wire-wrapping) then ANY project like that would probably be better than even buying the circuit board by some small percentage.

What it COSTS is different tool technology; different layout knowledge; different component mounts/boards; and MORE TIME than a pre-etched circuit board.

Reality, as far as I'm concerned is:

I have been seriously into WW since the early 80s. I REALLY like it. I have

3 WW guns/tools; sockets for anything I want to build; WW wire, in most colors, in rolls of a 1000ft or more-as well as pre-stripped wire in certain lengths. I have laid out units from schematics up to a microprocessor-controlled, testbed for 3.5" x 2 " (approx.-they were really probably used mm) ceramic hybrid semi-intelligent ferrite drivers intended for certain spacecraft applications. Bunch of ICs plus a bunch of parameter switches, and a lengthy/multi-section rotary switch, etc. etc. The point is that it was pretty complicated, and was perfect for a combination of point-to-point soldered connections, and a 6" x 8" WW protoboard with built-in busses, etc. FULL of ICs.

But... would I use WW for a small component-count 1 to 3 IC project? Naw! I would probably use a now-defunct technology that is similar to WW that uses a kind of plastic pen with melt-through insulation on it. I bought enough of it (and have even found some more) that I probably have a lifetime supply of the stuff. Others had a LOT of trouble making good connections with it-but I believe that was mainly because they used Antex/etc al 400 degree F irons instead of (what I deem as 'proper') 750 degree tips on my Weller. Maybe it was other stuff. It has performed terrifically for me, and still does. But, you can buy it now. So, that leaves 'REAL' point-to-point wiring for most everybody else for the small stuff.

And then there's another factor looming over hand wiring of projects: the dreaded surface mount. Let's face it: surface mount is here to stay. Noting this, as a fact, a year or so ago I had a chance to buy a fully factory reconditioned EDSYN Soldering Station, complete with hot air, and the regular temp controlled iron for less than 1/4 of the present-day price(s). I jumped at it, and the station that came in could have been new. I ordered separately the vacuum pick-up (which attaches to the input to the hot-air pump) and have a totally awesome setup. You ought to see the hot air tip desolder components. It's like magic. And NO static.

About the same time, I bought one of those stereo microscopes (from China) you can find towards the back of Computer Shopper. Wow. Great price. Powder epoxy finish. 3-way lighted stage. And excellent optics.

You can get some terrific little surface mount protoboards called: Surfboards. Digikey and Mouser as well as most of the rest of 'em carry them. They are NOT cheap. BUT, they do the SM job fantastically well. Some of them also come with 0.1 spaced pins, that will plug right in to an IC socket... so they can be combined quite well with WW techniques. 12 or more SMT transistors (6/side) or 2 SM ICs plugged into a 16 or 20 pin WW IC socket is a pretty acceptable component density for a prototype-in my book! It also offers the option of easily repairable modules in something like a multi-channel preamp/mixer such as I am going to build for my ham/boat anchor/SWL/VHF-UHF Monitoring station. An op-amp goes out, pop the amp board, put in another, and test the one you have in your nice little test fixture built the same way!

Conclusion:

So... do YOU need to rush out and buy a WW "gun" and stock up on all the stuff? Probably not. If you DO wire more than 2 or 3 relatively large projects annually, maybe. If more than that, (even better): if you-as I do-LIKE to proto-build stuff instead of buying everything, go for it. I love to take a large schematic and lay it out onto a proto-board, determine the ins-and-outs, figure out the component carriers, and finally wirewrap a nice, tight board.

It's a great feeling to see it play!

72 / 73 Ed N4XY Elecraft K2 sn: 000057

Ed Tanton N4XY EMAIL: n4xy@arrl.net
189 Pioneer Trail
Marietta, GA 30068-3466 TEL: (770) 971-0436

INTERESTS: *CW (99.5%) *QRP (QRP-L# 758)
*BoatAnchors *Test Equipment *Photography

"Begin at the beginning... and go on until you come
to the end: then stop."

The White Rabbit, from "Alice In Wonderland"

Date: Sat, 05 Jun 1999 20:33:57 -0400
From: Carol Palmer <ve3eza@sympatico.ca>
To: qrp-l@Lehigh.EDU
Subject: [47229] Re:VE3DNL KITS
Message-ID: <3759C1F5.F15D6968@sympatico.ca>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Gang

Looking for a Canadian Distributor of QRP kits. I am interested in the VE3DNL Marker/Generator kit. Tried looking up his web page but had no luck if anyone can help it would be appreciated.

73 VE3UZL Rob

Date: Mon, 09 Aug 1999 20:27:09 -0700
From: Charles Kadesch <chas@digizen.net>
To: qrp-1@lehigh.edu
Subject: [47230] re: Wire wrap
Message-ID: <37AF9C0D.6CDB@digizen.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Back in the late 60's when we were building custom computers from TTL logic IC's, the techs would wire wrap all of the logic with the square post sockets. Decoupling caps and any other discrete components were also wire wrapped - usually after being soldered to headers, or if needed for a quick mod, the component's round leads were wire wrapped - but always soldered. This assembly technique proved to be quite reliable for fixed installations. I still have a wire wrap gun and hand wrapper that I use occasionally for breadboarding low frequency circuits.

-72 de Chas W3KC-

Date: Mon, 09 Aug 1999 20:48:03 -0400
From: Francis Flynn <fflynn@together.net>
To: w6toy@erols.com, qrp-1@lehigh.edu
Subject: [47231] Re: Portable vertical idea
Message-ID: <37AF76C3.76717905@together.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

That is one trick that I never really thought of or read anywhere, so I'm glad you put it on the list. Another good idea is an antenna that I think is called a ''bazooka'', what you do for this one is attach a quarter wave wire to the center conductor of a coax feed, then fashion a ''choke balun'' of a few turns of coax another quarter wave back from the end of the coax. The theory is that the currents on the outside and inside of the portion of coax between the end and the choke are different. This in effect becomes a center fed dipole,

although it physically appears to be end fed. It's described in the ARRL handbook, at least in the 1996 one, which is the latest one I have. I tried one of these on 30m, seems to work ok, and it's very easy on the eyes, since there is no feedline attached at the center. Mine looked like a straight wire going from my house to a tree. I suppose you could run the coax from the ground up to some high mounting point like a tree or a tower and have a center fed half wave vertical. A gap antenna, but at a much lower price? I believe that velocity factor does not affect the currents on the outside of the coax shield for the part of coax that functions as the other half of the dipole, as opposed the single wire attached to the center conductor. A picture really is worth a thousand words, isn't it? I suggest looking in the handbook :)

Bruce Muscolino wrote:

> Goran,
>
> One of the oldest tricks in the Antenna Engineering book is to make a
> vertical dipole from RG58/U coax. One-half wavelength is measured and a
> small hole is made in the braid. The center conductor is pulled through
> the small hole leaving a quarter wave wire and a quarter wave shield!
> The feedline is already attached. Tape it to your pole and get on the
> air!
>
> 73

Date: 9 Aug 99 20:53:10 EDT
From: Roy Lincoln <wa4dou@usa.net>
To: aa5tb@swbell.net, Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [47232] Re: [What's 30dB Amongst Friends?]
Message-ID: <19990810005310.7122.qmail@nwcst294.netaddress.usa.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: quoted-printable
Content-Transfer-Encoding: quoted-printable

Hi Steve,

I'm glad you were civil with the guy with a kilowatt. A lot of us have =
been

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there, even if we were doing qrp also. QRP is also a mindset. 73 Roy
WA4DOU-----
-----
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=
=

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"Stev="

e
Yates, AA5TB" <aa5tb@swbell.net> wrote:
I answered a CQ from Michigan tonight.....

Date: Mon, 09 Aug 1999 21:11:24 -0400
From: "David Hurley,n2zhy" <n2zhy@amsat.org>
To: David Sarnoff Radio Club <dsrc@nerc2.nerc.com>, Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [47233] K2K Special Event
Message-ID: <37AF7C3C.11B25E8A@amsat.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

The Great Pumpkin giveth and taketh away.

I just figured out that it is already tomorrow and I have to relinquish the K2K special event call. The bands have been kind of crummy up this end of the states. 20 was slow and 40 was very noisy tonight. I spent some time on 20 meters and worked Spain, Brazil, Russia and Princeton Junction(long path). {For those out of the area, Princeton Junction is about 3 miles away} All contacts were 5 watts qrp, Russia was ssb and the others were cw.

Not much of a showing but I'm saving myself for a yet to be named big contest next year. Anyway these contacts will be added to the ones from the weekend.

An interesting bit of info came from Dick, k2reb;

```
> We had a special event station using K2K at the Putnam County, NY 4-H > Fair
in July of 1998.
```

I guess these special calls have an on the shelf life. That may be of interest to those planning bigger events. There might be some confusion factor in there somewhere.

So, thanks to everyone that tried. Kind of makes the coming Fox Hunts look easy!

72

David,n2zhy
Princeton,NJ

Date: Mon, 9 Aug 1999 20:57:43 -0700
From: w4bws@juno.com
To: w6toy@erols.com
Cc: qrp-1@Lehigh.EDU
Subject: [47234] Re: Portable vertical idea
Message-ID: <19990809.205912.-137047.1.w4bws@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

If you add an insulator to each end you can mount the center at the top of the pole and use it horizontal also
Don W4BWS

On Mon, 09 Aug 1999 19:15:17 -0400 Bruce Muscolino <w6toy@erols.com> writes:

>Goran, One of the oldest tricks in the Antenna Engineering book
>is to make a vertical dipole from RG58/U coax. One-half wave
>length is measured and a small hole is made in the braid.
>The center conductor is pulled through the small hole leaving
>a quarter wave wire and a quarter wave shield!
>The feedline is already attached. Tape it to your pole and get
>on the air!
>73

Don Sanders W4BWS
694 E. Eau Gallie Blvd
Satellite Beach ,FL 32937
My favorite QRP rig glows in the dark

Date: Mon, 9 Aug 1999 21:12:17 -0400
From: "Ed Tanton" <n4xy@att.net>

To: "QRP-L Reflector" <qrp-l@Lehigh.EDU>
Subject: [47235] my WW posting- an "oops" or 2...
Message-ID: <NBBBJDEEIFDDANGEGLBCEIPGIAA.n4xy@att.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

The melt-through pen contains a roll of small diameter wire. Somehow I managed to not mention the word: "wire". It came in (and I have) several colors. And somehow I said you "...can..." buy it now, when it should have been: "CAN'T buy it now".

Also, it's NOT "Computer Shopper" but "Nuts and Volts" where you can find the stereo microscopes.

Honest, guys-I did proof this before posting.

72 / 73 Ed N4XY Elecraft K2 sn: 000057

Ed Tanton N4XY EMAIL: n4xy@arrl.net
189 Pioneer Trail
Marietta, GA 30068-3466 TEL: (770) 971-0436

INTERESTS: *CW (99.5%) *QRP (QRP-L# 758)
*BoatAnchors *Test Equipment *Photography

"Begin at the beginning... and go on until you come
to the end: then stop."

The White Rabbit, from "Alice In Wonderland"

Date: Mon, 9 Aug 1999 19:28:19 -0600
From: Tim Pettibone <k5oi@zianet.com>
To: qrp-l@lehigh.edu
Subject: [47236] another ham class
Message-ID: <01281957850881@zianet.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Gang:

This is kind of QRP related in that 3 of the instructors are QRPers.

Weekend before last the Mesilla Valley Radio Club (the same one that ran field day QRP) conducted a morse code class. Before the weekend, ARRL tapes were distributed to the students with detailed instructions on how to proceed (30 minutes twice a day for 2 weeks). Initially 5 signed up. Before the weekend class started 2 had dropped out (1 for illness {sick of code I suspect} and 1 for TDY {real or imagined}). Three showed up for the weekend class which started at 8 am Saturday morning. Without going into details we assessed their entry skills, and practiced, practiced, practiced thru Sunday noon. In all 4 instructors worked with these 3, sometimes 1 on 1. One of the 3 decided he wasn't ready (initial assessment determined that he hadn't "really" done the tape drill). The other 2 struggled, and got frustrated, and practiced, practiced, practiced. And both PASSED the test conducted by the local VE group! Not only did they pass the multiple choice test but they had a minimum of 1 minute perfect copy (one had 3 minutes perfect). As best as I can determine, neither had any prior experience or training in cw. Not bad for about 12 days beginning to end.

It wasn't pretty but I think we got 2 more hams thinking about cw. With 3 of the 4 instructors QRPers, we gave the students a healthy dose of QRP propaganda as well. I'm the MVRC Board of Directors member that's responsible for "education". Two aren't many, but that's two more than before!

Tim K50I
Las Cruces, NM

p.s. It's really hard to send SL000000W cw but I'm glad we did!

Date: Mon, 9 Aug 1999 18:39:58 -0700
From: Bradford D Bilbrey <bigdawg74@juno.com>
To: qrp-1@Lehigh.EDU
Subject: [47237] Still for Sale
Message-ID: <19990809.183958.12846.0.bigdawg74@juno.com>

Hey Gang:

Still out of work here in Tucson, so more stuff is going to be sold.

Hello all,

I still have these items for sale. Items 3 & 5 were spoken for, but no funds were ever sent. I guess if I lowered the price to \$1.00 each they would sell quickly, unfortunately I am out of work and need the cash. Note there are a few new items

1. Kenwood TS-430 with the FM unit and SSB filter installed. Includes

mobil mount and Turner 350 mic. The only problem is an intermittant ON/OFF switch. Make a reasonable offer.

3. QRP tuner, "T" type, tapped coil and two variable caps \$ 15.00

4. Antenna coaxial switch, rated at 1000 watts, 3 position made by Workman \$10.00

5. HAM Toolkit CD-Rom \$ 10.00

7. FT-208R handy talky with new battery, leather case and speaker mic. \$75.00

8. Cmos keyer with built in paddle switch in an enclosure, works great \$10.00

9. Solid State Design for Amateur Radio Book by Wes Hayward and Doug DeMah \$10.00

10. 1984 ARRL Handbook \$10.00

11. Radioshack 2025 scanner \$25.00
Brad Bilbrey KE7MU

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Date: Tue, 10 Aug 1999 13:49:43 +1200
From: barry kirkwood <bjk@ihug.co.nz>
To: Ron Hambric <rhambric@mail.tca.net>, qrp-1@Lehigh.EDU
Subject: [47238] Re: Music and CW
Message-ID: <199908100149.NAA09479@smtp1.ihug.co.nz>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 06:10 PM 08/09/1999 -0500, you wrote:

>Baz, read your comments on music and cw. I had never thought about it in the
>way you

>stated the art of learning by just passivly listening.

>

>Ron Hambric

>N5SBN

>

Yessir:

It is a generic known to experimental psychologists as "latent learning". An excellent book dealing with this effect (and others): Eleanor Gibson "Varieties of Perceptual Learning". Read about the blind kid who learned to ride a bicycle using the echoes made as when he clicked his fingers!!! Also a few good pages talking about cw code learning.

73

Baz ZL1DD

end

Barry (Baz) Kirkwood PhD ZL1DD ex ZL1BN, ZL40K etc

Signal Hill

66 Cory Road

Palm Beach

Waiheke Island 1240

NEW ZEALAND

www.waiheke.co.nz/signal.htm

Ph/Fax 64-9-372-5161

Date: Mon, 9 Aug 1999 21:04:08 -0500
From: "Chuck Adams K7Q0" <adams@ticnet.com>
To: qrp-1@lehigh.edu
Subject: [47239] K5F0 Estate Sale Update
Message-ID: <E11E061-0000pA-00@pop3.ticnet.com>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-Transfer-Encoding: 7BIT

Gang,

OK, the starting post will be made late this Sunday.
What I will do is ask Jim E. at what time the digest is collected and mailed out for the day. That way I don't have to do a separate mailing to those in the digest mode. This is the only way I can do this and have any hope of keeping as many happy as possible and not kill myself in the process with the overhead.

The reason: Phyllis got an early leave so we are out of TX and in AZ for good Oct 1 of this year. This one year in advance of the expected date. So good thing I got K7Q0 when I did. :-)
So there won't be too many K7Q0/5 Qs made it looks like except late at night and evenings.

I will post all the items for sale in one post. (hopefully)
So stay tuned for the goodies. I have to get this
all done in 10 days so that I can pack the remaining
items for the move. This is going to be fun as the
time crunch is on.

OK, I'm looking for a foxhunt team in northern AZ to
join. I will have the wire strung in the first
week and then they can add the house on later. :-)

KU7Y, Ron may already be on a team, we'll be neighbors.

FYI

Chuck Adams K7Q0/5 adams@ticnet.com <http://www.qsl.net/k7qo/>

Date: Mon, 9 Aug 1999 19:11:35 -0700
From: DONALD I ROHER <donroher@juno.com>
To: ka7ozo@pacifier.com, tcseal@earthlink.net, leehop@uswest.net,
VOLE@PRIMENET.COM, donroher@juno.com, qrp-1@Lehigh.EDU, bonroher2@juno.com
Subject: [47240] Wrangell Island July 99
Message-ID: <19990809.191151.6502.0.DONROHER@juno.com>

KA7OZO

Sorry the QSO was so rough....QRN & someone came right in on top of you
at the end. I was also QRP at 3 watts with a HW-9. 40m sure was nosiy
tonight. I need AK for my CW QRP WAS so I will QSL & send a SASE. Hope
to work you under better conditions.

CUL & 73 Dave

KA7OZO

KD7ESA

good qso with on 7.140 @0615z.....pse qsl if ya can.....you had a great
signal

into marysville,wa....abt 30 miles north of seattle.....take care and
happy dx'ing.

sincerely tom

KD7ESA

KA7OZO

Sorry we had such a rough copy again tonight....I started out with the
HW-9 at 3w and ended up with the 735 at 120w and the beam....had a S-7
to S-9 noise level at times. 40m has to get better soon....I hope.

I am trying to do a few QSOs each day to get my speed up so I can up-grade soon. Hope to work you under better conditions.

CUL & 73 Dave

KA7OZO

KD7CTF

Hi, Don -

Just got thru working you on 40-m cw thru tough condx on your side. Here you

were strong. Heard you mention qrp-l ! You are my first qrp-qrp contact. Hope you copied my 2 watts from DSW-40 (Small Wonder Labs). Have a dipole at abt 40 ft running E-W so most of my contacts have been N & S.

We are abt 856 mi apart (great circle distance) and I *do* appreciate you digging me out of the qrn. Interesting condx. Will qsl.

BTW, what are you doing on Wrangell Island?

73's

Lee Hopper kd7ctf@arrl.net Portland, OR, USA

KD7CTF

Tnx for the E-mail replies you are special QRPers.

And to the QRP-L gang:

The path south was much better than the path north. I had alot of 579 and 599 replies which surprised me. When I got back to San Diego and stopped at HRO, Tom told me the band had been the pits, this was a surprise to us. We had good western U.S. conditions. Most of the contacts were on 40 meters at the 7.140 freq and S1-S5. We thought we were working mostly QRP stations, after all that was what we ment to do.....

As some know we almost scrubbed the mission, we would have made 10 meter contacts but nothing else, as had left a 10 mtr rig there on last years trip.

So the rest of the story.

We were misinformed about the airline bagage allowance. We thought that there was not going to be room for much radio gear. The original plan was to take two SG-2020's. Since we were going to a wedding the camera gear got priority and we switched to plan B: TEN MTRS QRP ONLY.

When we got to the San Diego and learned that we could have 3 more carry on bags, it was off to HRO to look at the anchor rack for a cheep and quick radio replacement.

There was not much of interest on the rack, I thought about another new SG-2020 being a cheep way out, but having two of these fine QRP rigs

already I wanted something else as my last radio before poverty sets in at retirement. We will winter over for winter 2000 on Wrangell.

I purchased a new KNWD TS-570, Ron and Ken said I would love it, I was worried about all the buttons, but they gave me a cram course and it was off to Wrangell Island with a radio I really did not know how to use, new antenna wire and coax.

Why did I buy a new radio, I knew there were people who had planned to camp on 7.140 until they had a QRP QSL card from Alaska and Wrangell Island. One of these was Norm Slater K7EIJ, Norm was our last contact, I was so tired when we talked I didn't even recognise his call sign. I am sure glad he made contact with us. I just finished a contact with him in Arizona and he said it was the pits, QRM, QSB and all.

Why do I do it, well a few years ago Jack Bitzer NL7SX moved south from Ketchikan to California and we lost one of the greatest QSL'ers in Alaska. Jacks home made QSL cards were/are real collectors items. With Jacks departure there was no one there to take up where he left off. When at Jack's remote cabin he spent alot of time on the air and replied to everyone. My remote cabin is 80 miles north of Jack's.

As you all learned or read from above, that part of Alaska, British Columbia and the Yukon are well in reach for a few watts. All it takes is for someone to be there with the desire to stick with the weak signals. I believe I only lost two contacts, after the second one gave up I would send a "do not give up I will stick with you", next trip I will put that into the keyer memory. There were no more losses after that other than when working KB7CJV, I pushed a wrong button and shifted frequency by accident and lost him or her.

I do my best to be on the air as often as I can and I reply to every QSL card I receive. I love to hear, "You are my first Alaska QRP". Jack Bitzer was my first lowpower contact in Alaska from Arizona. We Talked regularly and became good friends, I was happy to have Jack visit me in Arizona and wish him well until we both are in Alaska again full time.

There is a lot you can do to help yourselves in getting more DX contacts. First outstanding CW work. K6DCF San Diego, he had the best technique to insure we copied him.

He sent at abt 10 wpm and repeated each word twice. My first evening back in Arizona I was surprised to talk with him again, I was stuned to hear him at 20+ wpm. I had to learned C.W. all over again after so much slow code..

Trying for a hard to get QSL card is not a rag chew, many station do not understand English words in C.W. nor can they copy them from a weak

signal, they and I rely on only q words.

A typical QSO is:

FRM NL7QT CQ CQ CQ DE NL7QT NL7QT K
FRM XE1XX XE1XX XE1XX

(He didn't send my call, he knows I
learned it years ago)

FRM NL7QT BK Copy XE1XX Copy XE1XX QSL QSL BK
(I'm asking do I have your Call correct

for the QSL card)

FRM XE1XX BK QSL QSL RST 55N 55N NAME POCO POCO QTH MADRID
MADRID MEX MEX (If you have my info

add Hv ur info, saves time

for the next person) BK (He confirmed I
have his call sign correct
and passed his info.)

FRM NL7QT BK RST 55N 55N NAME DON DON QTH WRANGELL WRANGELL
ISLAND ISLAND PLS QSL VIA BURO PLS QSL VIA

BURO 73 73

N TNX BK.

FRM XE2XX BK QSL QSL 73 73 N TNX (All is well I'm waiting for
your card

or yours is in the mail via the buro).
FRM NL7QT DE NL7QT NL7QT QRZ QRZ K (On to the next one before
the

generator shuts down and we are in the
dark or the band drops
dead).

We found with the noise we were losing dots, the 3 of us would listen and
laugh about it, at S-1 if a person repeated their call 3 times we usually
got it no mater how bad the noise was. There is a strange phase
distortion in the north that makes a.m. signals sound like cw, these
gremlins add with incoming signals to make very hard copy.

Antennas: Recent antenna work will do more for you than power, but point
it in the direction you need the card from. We found little difference in
5 watt and 100 watt signals at that distance. Signals from Phoenix were
as good as from Washington and Oregon.

We make new antennas for each trip. I use a dipole for 40 mtrs and a
dipole for 10 mtrs. We tune either antenna for use on 15 mtrs. and use
new coax, RG-8x, next year we will use ladder line for less loss. We do
not use baluns as these are power wasting weak links. Solder your coax
directly to the antenna wire, we do this using a plastic p-nut butter can
to keep the water out. Wrangell is in the rain forest. This connection
when weathered or wet and when used with a coax connector can eat half
your power. Cut your antenna to your freq., Tuners can waste a Db of

power. Use the best wire you can get, the best German wire antennas uses stainless steel for a life time antenna. We will talk about DC and RF resistance later as another subject, antenna are my full time work.

We had our share of laughs, while being QRMed by an other station, a 0 call came on at abt a kilowatt and said "Hemriod you are interfering with world wide QRP operations, fix your antenna", we waited to make contact with this big signal but we didn't hear from him or her again, but we thank you.

Then we had VY1JA, Jay in Whitehorse, The Yukon, he was QRPP and some worked us both, that made some happy people. Jay even relayed a hard to copy call from Ca. to us.

I will forward all the comments we get, I am sure there will be those on my spelling or my wasting the band width, but I was on the other end of Romania, and a lot of California, Arizona and Texas. Chuck, I am sorry you were on the road but next time we'll make contact.

As you said in a past post, there are those that are doing it on the side lines and not sharing the information as we could to make things better for all the QRP-L.

I regret that there was little time for rag chewing, conditions made it very hard. There is a lot of stress in working weak signals.

To those who worked us on several occasions with varying power and antennas, we appreciate it, with out you there would be no one waiting on the other end. It has been a real hoot to work K7EIJ and K6DCF after returning.

To the Ham's at Alaska Airlines a special thank you, Alaska Airlines gave me a free ticket that I will use next year.

The good news is that it is not over.... I will be back on Wrangell Island in September. I left my Love there for the summer. She learned to copy call signs during this and probably will get a ticket when returning. And yes Bonnie, the head phones are packed.....

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Date: Mon, 9 Aug 1999 21:26:08 -0400

From: k5xu@concentric.net

To: <qrp-1@lehigh.edu>
Subject: [47241] RS telephone Interference Filter 43-150
Message-ID: <015301bee2cf\$7b1a9580\$454aadce@mike>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

It's \$19.99.

Does it really filter anything other than the contents of my wallet?

Mike Duke, Jackson, Mississippi

Date: Mon, 9 Aug 1999 21:24:14 -0400
From: k5xu@concentric.net
To: <qrp-1@lehigh.edu>
Subject: [47242] MFJ Sales
Message-ID: <015201bee2cf\$78212ba0\$454aadce@mike>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

While rambling through the MFJ web page today, I noticed that the 9017 17 meter rig, the matching folded dipole, and the 15 meter folded dipole are going at reduced prices direct from MFJ.

Sounds as though they may be about to drop these items.

Check these and other clearance listings at <http://www.mfjenterprises.com>.

Mike Duke

Date: Mon, 9 Aug 1999 22:53:38 EDT
From: RangerSF5@aol.com
To: k5xu@concentric.net, qrp-1@lehigh.edu
Subject: [47243] Re: RS telephone Interference Filter 43-150
Message-ID: <fd55b05.24e0ee32@aol.com>

MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

In a message dated 8/9/99 9:19:58 PM EST, k5xu@concentric.net writes:

<< Does it really filter anything other than the contents of my wallet? >>
Thats about all it will filter
Bob
WA2HOQrp <tm>

Date: Mon, 9 Aug 1999 22:58:32 -0400 (EDT)
From: "Paul R. Valko" <prvalko@oakland.edu>
To: QRP List <qrp-l@lehigh.edu>
Subject: [47244] FOXHUNT 2000 pre-announcement
Message-ID: <Pine.OSF.3.95.990809224256.21069E-1000000@saturn3.acs.oakland.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Gang,

Whew... I have been bombarded with requests since the Team Foxhunters have already started organizing. Here is an update.

There will be a millienium foxhunt.

It will start in late October.

The foxhunt will follow the same basic format as last year. There will be a couple changes to streamline things.

I will CALL FOR FOXII in September!!! Stay tuned so you don't miss out.

It is important to note that I have NOTHING to do with the foxhunt teams. As far as the rules of the foxhunt is concerned, the team foxhunt doesn't exist. It is a popular, fun, external event. So the questions I have been asked such as, 'Can I be on a foxhunt team and still be a fox?' mean nothing. The answer, of course, is YES.

More later...

73! =paul= W8KC
Collector of Ten*Tecs and other fine plastics
<<http://www.acs.oakland.edu/~prvalko>>

Date: Mon, 9 Aug 1999 19:20:23 -0700
From: DONALD I ROHER <donroher@juno.com>
To: wa4dou@usa.net
Cc: qrp-1@Lehigh.EDU
Subject: [47245] Re: [What's 30dB Amongst Friends?]
Message-ID: <19990809.200557.6502.2.DONROHER@juno.com>

I agree, a Kilowatter cleared the freq so we could continue with world wide QRP from Wrangell Island, Then did not even make contact with us, He or she must have appreciated our strong will and weak xmtrs..... Or maybe they were one of those with all toys except a qrp rig that was home built....

On 9 Aug 99 20:53:10 EDT Roy Lincoln <wa4dou@usa.net> writes:

>Hi Steve,
> I'm glad you were civil with the guy with a kilowatt. A lot of us
>have been
>there, even if we were doing qrp also. QRP is also a mindset. 73 Roy
>WA4DOU-----

>
>
>
>"Steve
>Yates, AA5TB" <aa5tb@swbell.net> wrote:
>I answered a CQ from Michigan tonight.....
>
>

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Date: Mon, 09 Aug 1999 22:00:33 -0500
From: "Steve Yates, AA5TB" <aa5tb@swbell.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [47246] Re: QRP Afield: Rules/ Announcement
Message-ID: <00f401bee2dc\$8414f100\$7737a497@aa5tb>

MIME-version: 1.0
Content-type: text/plain; charset="iso-8859-1"
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

"Sept. 18th (Sat.) 1800-0000Z"

"This is 'one of the big ones', and it's a wonderful time of year to get outside."

Yes, it ought to be cooled down to about 100 F here by then. But I'm still looking forward to it ('QRP Afield'). Just wish we had a temperature multiplier for this one too :-). Or, maybe I should move up north?

I know... whine, whine...

Sorry, the heat's just getting to me today. Just once I'd like to enjoy summer!

Thanks for the information.

73,

Steve Yates - AA5TB

Fort Worth, TX - EM12gs (The hottest place on the continent lately)

<http://home.swbell.net/aa5tb>

Date: Mon, 09 Aug 1999 22:00:41 -0500

From: "Steve Yates, AA5TB" <aa5tb@swbell.net>

To: k5zty@juno.com, Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Subject: [47247] Re: Enclosure material for antenna tuners?

Message-ID: <00f501bee2dc\$88e5da00\$7737a497@aa5tb>

MIME-version: 1.0

Content-type: text/plain; charset="iso-8859-1"

Content-transfer-encoding: 7bit

Content-Transfer-Encoding: 7bit

"Aren't all commercial tuners in metal cases??? There isn't 2 coil diameters distance from coil to case in them."

This is why homebrew can sometimes be better :-)

73,

Steve Yates - AA5TB

Fort Worth, TX - EM12gs

<http://home.swbell.net/aa5tb>

Date: Mon, 09 Aug 1999 22:00:47 -0500
From: "Steve Yates, AA5TB" <aa5tb@swbell.net>
To: n4xy@att.net, Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [47248] Re: WW (wire-wrap) Yes or No? (LONG)
Message-ID: <00f601bee2dc\$8c2b8f20\$7737a497@aa5tb>
MIME-version: 1.0
Content-type: text/plain; charset="iso-8859-1"
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

Over the years I have wire wrapped many very dense Mupac boards full of as many as 100 microcircuits (talk about a lot of work!) as prototypes or one-of-kind boards at a major aerodefense company. Inspection criteria are rigorous but the boards have all worked flawlessly. There are some boards that I constructed 11 years ago that are still in good service. Wire wrap is a sound method of construction when properly done. Of course it has its limitations due to the lead inductances, component spacing, etc.

73,
Steve Yates - AA5TB
Fort Worth, TX - EM12gs
<http://home.swbell.net/aa5tb>

Date: Mon, 9 Aug 1999 21:06:17 -0600
From: "Dick Schneider" <dschneider2@uswest.net>
To: "QRP-L" <qrp-l@Lehigh.edu>
Subject: [47249] FS: OUTBACKER PERTHPLUS
Message-ID: <000501bee2dd\$50838940\$64b4a0d8@dnvr.uswest.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

FOR SALE

OUTBACKER PERTHPLUS MOBILE ANTENNA. HANDLES 150W PEP 75-10M+6/2M. 6 MONTHS

OLD. OWNED BY A LITTLE OLE HAM IN TENNIS SHOES (STAN SMITHS). NEVER DRIVEN
OVER 5 WATTS. \$200 SHIPPED CONUS.

72 DICK AB0CD..

Date: Mon, 9 Aug 1999 21:13:49 -0600
From: "Dick Schneider" <dschneider2@uswest.net>
To: "QRP-L" <qrp-l@Lehigh.edu>
Subject: [47250] FS: JPS ANC4 ANTENNA NOISE CANCELLER
Message-ID: <000b01bee2de\$5df1d720\$64b4a0d8@dnvr.uswest.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

FOR SALE

JPS ANC4 ANTENNA NOISE CANCELLER. \$125 SHIPPED CONUS.

72 DICK AB0CD..

Date: Mon, 9 Aug 1999 21:15:14 -0600
From: "Dick Schneider" <dschneider2@uswest.net>
To: "QRP-L" <qrp-l@Lehigh.edu>
Subject: [47251] FS: HTX-100 10 M SSB/CW
Message-ID: <001101bee2de\$90a06380\$64b4a0d8@dnvr.uswest.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

FOR SALE:

REALISTIC HTX-100 10 METER SSB/CW MOBILE TRANSCEIVER. 5/25W. EXCELLENT RIG
FOR TECHPLUS OR ANYONE INTERESTED IN 10 METER FUN. W/MIC, BOX, MANUAL AND
MOBILE MOUNT. \$125 SHIPPED CONUS.

72 DICK AB0CD..

Date: Mon, 9 Aug 1999 21:16:14 -0600
From: "Dick Schneider" <dschneider2@uswest.net>
To: "QRP-L" <qrp-l@Lehigh.edu>
Subject: [47252] FS: PALOMAR R-X NOISE BRIDGE
Message-ID: <001701bee2de\$b4577480\$64b4a0d8@dnvr.uswest.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

FOR SALE:

PALOMAR R-X NOISE BRIDGE. \$50 SHIPPED CONUS.

72 DICK AB0CD..

Date: Mon, 9 Aug 1999 21:07:34 -0400
From: hamjoel@juno.com
To: qrp-l@lehigh.edu
Subject: [47253] Wire / Rope Ant... I did it... sort of
Message-ID: <19990809.231646.-317245.0.hamjoel@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

High gang

Well, funny how life and antennas can go downhill in a hurry....

However, I did sumthin knew heah and it seems to work!!!

I took two 14ft wooden closet rods and stretched two wires between them... one 66ft 5in and the other 62ft 3in... shoulda been five inches but what the heck...

anyhow, I feed the end of the 66ft wire with 300 ohm twin lead... end fed it I did... voltage fed... high impedeance and all that stuff...I tied one end of the twin lead to the end of the wire and left the other side free... taped the twin lead along the closet rod till I got it to the middle of the rod (to avoid any tendency of the ant to tip or lean to

one side).. and ran the twin lead to the house...

The ant loads... (atu) forty meters seems to be a bit off tonite however signals are good... and I will now try and make a few contacts with the thing.... Taking that rg8u off the driver sure lightened the ant a lot... and a 14ft closet rod is so easy to work with...

more to follow

Joel KE1LA
In Maine

Get the Internet just the way you want it.
Free software, free e-mail, and free Internet access for a month!
Try Juno Web: <http://dl.www.juno.com/dynoget/tagj>.

Date: Mon, 9 Aug 1999 21:18:20 -0600
From: "Dick Schneider" <dschneider2@uswest.net>
To: "QRP-L" <qrp-l@Lehigh.edu>
Subject: [47254] FS: CUSHCRAFT R-7 VERTICAL 40-10 INC WARC
Message-ID: <001d01bee2de\$ff1d9b20\$64b4a0d8@dnvr.uswest.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

FOR SALE:

CUSHCRAFT R-7 SEVEN-BAND VERTICAL ANTENNA. 10, 12, 15, 20, 30, 40 METERS. NO RADIALS NEEDED. MOUNTS EASILY ON AN 8-FOOT PIPE WITH NO GUY WIRES. EXCELLENT FOR SMALL FOOTPRINT. \$215 SHIPPED CONUS. (AVAILABLE FOR PICKUP IN DENVER)

72 DICK AB0CD..

Date: Mon, 9 Aug 1999 21:19:15 -0600
From: "Dick Schneider" <dschneider2@uswest.net>
To: "QRP-L" <qrp-l@Lehigh.edu>
Subject: [47255] FS: KENWOOD PS52 PWR SUP
Message-ID: <002301bee2df\$204f39c0\$64b4a0d8@dnvr.uswest.net>

MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

FOR SALE:

KENWOOD PS52 HEAVY DUTY POWER SUPPLY. EXCELLENT CONDITION. \$215 SHIPPED CONUS.

72 DICK AB0CD..

Date: Tue, 10 Aug 1999 03:24:22 GMT
From: mwattcpa@earthlink.net (Marty Watt)
To: qrp-1@lehigh.edu
Subject: [47256] FS: TS-50s/AT-50s and accessories
Message-ID: <37b79aa2.15557138@mail.earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: quoted-printable
Content-Transfer-Encoding: quoted-printable

I've decided, after this past weekend's NAQP, that I need to upgrade to a serious contest quality radio. Perhaps there is someone looking to go = mobile,
or for a good backup rig?

I have a clean TS-50s, with the AT-50, I'd rate a 8.5 on a scale of 1-10 cosmetically, and a 10 functionally. I have the short tuner cord and the= long
tuner cord, for those who would like to keep the tuner in the trunk of = the
car. I have the quick-release mobile mount, and the hand mike with = function
keys. I even have a homebrew device that you can use to control the = function
keys and up/down without the microphone, for when you want to be CW only.

The whole shootin' match, plus I'll throw in my travel case (a laptop = case
which is the exact size to hold the radio and the tuner). \$750 plus = shipping
(your method). Delivery within 3 hour (one-way) drive of Memphis, =

Tennessee.

Trades considered (preferred, actually) for Omni V or VI, IC-761 or =
IC-765, or
similar "big" radio.

Only catch ... I can't ship it until AFTER the NAQP SSB weekend in two =
weeks!

--

Marty, N5NW

-----=

Memphis, Tennessee =

<http://home.earthlink.net/~mwattcpa>

Date: Mon, 09 Aug 1999 22:41:13 -0500
From: Addi Pittman <cornea@vsta.com>
To: qrp-1@Lehigh.EDU
Subject: [47257] ST. Louis Vertical
Message-ID: <37AF9F57.1798E9BD@vsta.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hello All, Ive been thinking of building a St. Louis vertical ant. for
my desert backpacking. Ive not heard anything for a couple of years now
about this ant. Does anyone have any input as to its performance? This
ant. appeals to me only because it is its own support, and I have no
trees on most of my wanderings in the desert. Im in the process of
building the DSW 40, and I do wonder how this ant. does on 40 mtrs.

Adios from South Texas, Bob K5EYE
Alice, Texas cornea@vsta.com

Date: Mon, 09 Aug 1999 21:03:42 -0700
From: David Shalita <af389@lafn.org>
To: "qrp-1@Lehigh.EDU" <qrp-1@Lehigh.EDU>
Subject: [47258] RS-Component Tester-22-330
Message-ID: <37AFA49E.56E0669C@lafn.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi, I bought one of those neat Radio Shack Component Testers, part number 22-330 when on special. Handy to quickly spot E B C leads for 2N2222 2N3906 etc IF THE UNIT DOES SO CORRECTLY!!! WHEN LEADS are defined INCORRECTLY, you will be FORCED to find parts installed backwards...just did this.. a pain.

My unit appeared to work well for a while.

Now is definitely not working well with 2N2222 and 2N3906 parts. Given a handful of 2N2222, this tester will not correctly identify the E emitter B base C collector leads with some parts and will indicate OK correct for others in the same handful.

I have a batch of NPN parts salvaged from VCR that are similar to 2N2222 but E B C leads are arranged different. The RS tester errors same way when finding E B C leads with these parts also.

My owners manual is lost somewhere in my shack...I am embarrassed.

Can some owner tell me how long is the warranty for this unit?

Homebrew Test Jig

I set up a test jig.
Collector to +5v through 1K for close to 5 ma at $v_{ce}=0.1v$.
Base to +5v through 90K.... 50uA base current.
With beta of 100 or greater at 5ma, VCE will be 0.1 volts.
A 2N2222 installed with collector and emitter leads swapped will have a very low beta, so can expect VCE to be above 4 volts.
Test fixture identified the correct lead pattern.
Beta differences were dramatic with incorrect orientation.

Having the same problem with 2N3906 PNP.
E B C lead pattern defined by tester is WRONG.

Has anyone else had similar experiences?
I would suggest you try this with a handful of same part type.

Have not tried this with FETS.

Need Socket Saver

=====
I would suggest USERS build a separate set of sockets for 2N2222 or 2N3906 parts so the socket in the tester does not

become damaged due to mutiple part insertion.
I do not believe that this socket is an easy part to replace,
but have not opened unit to see if repairable.

Thanks for any info.
73, W6MIK

--

David Shalita (Dave)
af389@lafn.org
Van Nuys, CA

Date: Mon, 9 Aug 1999 21:10:10 -0700
From: Bob Nielsen <nielsen@primenet.com>
To: k5xu@concentric.net
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [47259] Re: RS telephone Interference Filter 43-150
Message-ID: <19990809211010.C28844@bob>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii

I have a couple of the K-COM filters (\$16.95) which look just like the
picture in the Radio Shack ad. They work pretty well to keep out a
nearby AM broadcast station.

Bob

On Mon, Aug 09, 1999 at 09:26:08PM -0400, k5xu@concentric.net wrote:
> It's \$19.99.
>
> Does it really filter anything other than the contents of my wallet?
>
> Mike Duke, Jackson, Mississippi
>

--

Bob Nielsen Internet: nielsen@primenet.com
Tucson, AZ AMPRnet: w6swe@w6swe.ampr.org
DM42nh http://www.primenet.com/~nielsen

Date: Mon, 9 Aug 1999 21:17:43 -0700 (PDT)
From: Monte Stark <ku7y@dri.edu>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [47260] Re: Portable vertical idea

Message-ID: <Pine.GS0.4.10.9908092112320.7328-1000000@rotor.dri.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Mon, 9 Aug 1999, Bruce Muscolino wrote:

> One of the oldest tricks in the Antenna Engineering book is to make a
> vertical dipole from RG58/U coax. One-half wavelength is measured and a
> small hole is made in the braid. The center conductor is pulled through
> the small hole leaving a quarter wave wire and a quarter wave shield!
> The feedline is already attached. Tape it to your pole and get on the
> air!
>

I was on a mountain top in Utah a few years ago.....when I
went to put up the antenna it wasn't there!

I made a 1/4 wave vertical the same way. Taped the center
part to a rope and tied that up at the top of the tower.
I taped the braid over to a guy wire at about a 45 deg
angle. SWR was very close to 1 to 1 and it worked for over
2 years!

I did put lots of silicone on it with tape to keep water
from getting inside the shield.

cul,

73, Ron, SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

Date: Tue, 10 Aug 1999 00:41:43 -0400
From: "Ed Tanton" <n4xy@att.net>
To: <aa5tb@swbell.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [47261] RE: Enclosure material for antenna tuners?
Message-ID: <NBBBJDEEIFDDANGEGHLBOEJIGIAA.n4xy@att.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I would take exception here Steve. "Better" is VERY relative in this example. I would suggest that, regardless of power level involved, the RF output difference between 'your' uncased tuner (with its better efficiency/etc.) and an identical-but-cased tuner is not significant-possibly not even discernable-at the other end of the QSO. Furthermore, the uncovered tuner represents an RF hazard to anyone nearby-including the user; is easily damaged due to its physical exposure; and looks awful compared to the same unit in the most simple of cabinets. The only 'better' I can see, is a somewhat better efficiency, offset (for me) by the negative points mentioned above.

///snip

"Aren't all commercial tuners in metal cases??? There isn't 2 coil diameters distance from coil to case in them."

///snip

This is why homebrew can sometimes be better :-)

73,
Steve Yates - AA5TB

///snip

Date: Mon, 9 Aug 1999 23:56:59 -0500 (CDT)
From: aweiss@usd.edu (Ade Weiss W0RSP)
To: qrp-l@lehigh.edu
Subject: [47262] Correction: MFJ Artificial Ground = Series L-C, NOT L-Network
Message-ID: <199908100456.XAA20839@sunburst.usd.edu>

Hi gang:

Someone asked if I hadn't made a mistake in my recent comments on the MFJ Artificial Ground unit.

Fact is, ... YES.

Hey, I'm getting old and my memory is failing, so I thought it was L-network even though I looked at it 8 months ago and saw it was a series L-C!

72, Ade

Date: Mon, 09 Aug 1999 22:59:05 -0600
From: Jess Gypin <jessqrp@earthlink.net>
To: qrp-1@lehigh.edu
Subject: [47263] Web page URL change
Message-ID: <3.0.3.32.19990809225905.006b6b58@mail.earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi all,

I have changed ISP's and the address for my home page is now

[HTTP://www.rmham.org/ae0cw](http://www.rmham.org/ae0cw)

Please make a note and drop by.

For those of you that may have sent me an email and did not get a repsonse,
the new address is
jessqrp@earthlink.net.

Thanks!

Jess AE0CW

Date: Tue, 10 Aug 1999 00:06:18 -0500
From: "Randy Jouett" <rules@bellsouth.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [47264] Using a Re-Gen as a Transmitter
Message-ID: <006901bee2ee\$16e6a260\$9e67d6d1@spock>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Had another "HMMM" tonight, and I was wondering
if this is another one of my dumb ideas or something
that could actually work :^). Basically, I was thinking
about building a Re-Gen and pulling a "Pixie II" on
the thing. That is, on transmit, force the thing into
oscillation and use the audio amp as a xmit
buffer/amplifier, and pass that through a low-pass
filter. Anyone out there in QRP-L land ever try something

like this? If so, how did it work? The idea behind this is to keep the parts count low and to have a rig that could be easily put together by a novice. I'd try it myself, but I'm still in the Elmer 100's when it comes to RF :^). So, should a don the dunce cap, sit in the corner, and put my nose on the wall, or is this worth looking into?

72/73,

Randy Jouett, AB5NI

Date: Tue, 10 Aug 1999 10:52:52 -0400
From: Bill Meara <n2cqr@erols.com>
To: gqrp@onelist.com, qrp-1@Lehigh.EDU, homebrew@qth.net
Subject: [47265] Regen Madness: Questions on MB4 and HF9
Message-ID: <199908101053.GAA27055@smtp3.erols.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I'm building G0KJK's MB4 regen RX from Sprat 97.

For the audio amp Keith used two BC109/107/108s. Would a 2n2222 work as a substitute? If not, can someone suggest a suitable equivalent (available on this side of the pond)?

Also, one question on winding the toroid: I notice in an earlier version of this RX (HF9 SW RX in SPRAT 82) Keith notes that "The regeneration winding should be in the opposite sense to the tuning winding." I want to make sure I understand this correctly:

Should I wind the tickler in the opposite direction around the toroid from the tuning winding (CW vs. CCW) or should I wind the two coils in the same direction and then ground opposite ends of each coil?

Hoping to hear you all soon via regeneration...

Thanks,
73 de N2CQR
Bill Meara, Falls Church, Virginia
n2cqr@erols.com
<http://www.erols.com/wmeara>

Date: Tue, 10 Aug 1999 07:28:42 -0400
From: "Ken Simpson" <W8EK@fdt.net>
To: "QRP List" <qrp-l@lehigh.edu>
Subject: [47266] Misc older publications FS
Message-ID: <028401bee323\$80da4020\$7897fea9@kensimps>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

For sale - Ameco, Tab, Sams, Callbooks, and other older books:

Allied Radio - Dictionary of Electronic Terms - 8th edition -
January 1969 - like new condition - \$ 15

Allied Radio Electronics Data Handbook - 5th edition - Oct 1968
also in like new condition \$ 12

Amateur Radio - Theory and Practice by Shrader - 1982 \$ 7

Ameco Amateur Radio Theory Course - 1974
comprehensive book, good for all class licenses \$ 6

Ameco Amateur Radio Novice Class Theory Course - 1977 - \$ 5

Ameco Complete Technician Radio Amateur FCC Test Manual 1990 \$ 4

Ameco Advanced Class Radio Amateur License Guide - 1981 - \$ 3

Tab - Oscar: The Ham Radio Satellites, by K4TWJ - first edition,
first printing, 1979 hardbound \$ 8

Tab - Amateur Radio General Class License Study - 2nd Edition - 1975
\$ 4

Tab - Amateur Radio Advanced Class License Study - 2nd Edition - 1975
\$ 4

Sams - General Class Amateur License Study Guide by W0XI
1979 - first edition - first printing - \$ 5

Sams Handbook of Electronic Tables and Formulas - 3rd edition
1968 - hardbound - \$ 15

W5YI Part 97 FCC rules and regulations - Jan 1993 \$ 3

73 magazine General Class License Study Guide - 1978 - \$ 4

Radio Amateur Callbooks For Sale:

1988 North American \$ 10

1991 North American \$ 10

The above are "like new," They have been opened up, but that is about it.

1990 North American \$ 5

1990 International \$ 5

1990 Supplement (includes both US and DX) \$ 2

1992 North American \$ 5

1992 International \$ 5

These have been used. They show some use, but are not "beat up" or damaged.

Prices do not include shipping from Florida.
All books are in good condition.

E-mail to W8EK@fdt.net

Thanks.

73,

Ken, W8EK

Ken Simpson
E-Mail to W8EK@fdt.net
Voice Phone (352) 732-8400

Date: Tue, 10 Aug 1999 06:38:38 -0500
From: "Steve Yates, AA5TB" <aa5tb@swbell.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [47267] Re: Enclosure material for antenna tuners?
Message-ID: <003e01bee324\$e41baf60\$ab37a497@aa5tb>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Ed,

Your absolutely correct! That is why I said "can sometimes be better".
Also, I didn't necessarily mean to leave it uncased.

Thanks for the clarification.

73,
Steve Yates - AA5TB
Fort Worth, TX - EM12gs
<http://home.swbell.net/aa5tb>

Date: Tue, 10 Aug 1999 06:07:37 -0600
From: Jess Gypin <jessqrp@earthlink.net>
To: qrp-l@lehigh.edu
Subject: [47268] Listing
Message-ID: <3.0.3.32.19990810060737.006a3694@mail.earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi all,

Date: Tue, 10 Aug 1999 06:08:48 -0600
From: Jess Gypin <jessqrp@earthlink.net>

To: qrp-1@lehigh.edu
Message-ID: <3.0.3.32.19990810060848.0069df88@mail.earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi

Date: Tue, 10 Aug 1999 08:31:37 -0400
From: Greg Weinfurtner <weinfurt@oak.cats.ohiou.edu>
To: qrp-1@Lehigh.EDU
Subject: [47270] Hallicrafters SR-46 info/opinion please...
Message-ID: <v03110704b3d5ca26d74d@[132.235.81.57]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi gang,

I just recently came across an Hallicrafters SR-46 rig at the local junk yard. It is without tubes and appears to be a 6 meter rig, definitely QRP, as there is only 7 and 9 pin tube sockets. AM modulation(?), with a VFO built in. That is about all I know about it from an observation... oh yes, it looks like it was in an accident too, top cover missing and front bent a little.

Anyone have an opinion on this one? Is it worth fixing up or would it have been better to have left it in the junkyard? Is AM on 6 meters even used much any more?

Thanks!

NS80 Greg Weinfurtner

Date: Tue, 10 Aug 1999 08:33:15 EDT
From: Shephed@aol.com
To: qrp-1@lehigh.edu
Subject: [47271] Re: Listing
Message-ID: <88acd5f9.24e1760b@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hello.
How's it going?

72, 73
Dan, N8IE
qrp-1 #1404
FISTS #4985

Date: Tue, 10 Aug 1999 08:49:45 EDT
From: Shepherd@aol.com
To: qrp-1@lehigh.edu
Subject: [47272] SWORDS Fox Hunt Team 99
Message-ID: <d3ce8654.24e179e9@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Well, fellow hunters, we are here again and ready to kick some butt!

The SWORDS team for 99 is:
Rick, WB6JBM
Andy, KC8KFI
Doc, K0EVZ
Dan, N8IE
As you can see, we are RADD!

"The Foxii will fear us, and the Hunters will envy us"
Have fun everyone, and happy hunting.

72, 73
Dan, N8IE
QRP-1 #1404

Date: Tue, 10 Aug 1999 09:38:01 -0400
From: "Ed Hare, W1RFI" <w1rfi@arrl.net>
To: qrp-1@lehigh.edu
Subject: [47273] Re: RS telephone Interference Filter 43-150
Message-ID: <37B02B39.2262@arrl.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

RangerSF5@aol.com wrote:

> In a message dated 8/9/99 9:19:58 PM EST, k5xu@concentric.net writes:

> << Does it really filter anything other than the contents of my wallet? >>

> Thats about all it will filter

On what basis do you say that? I have tested the filters and found that they offer about 30 dB of common-mode rejection on HF. If you tried one and it didn't work, there could have been other factors involved.

See <http://www.arrl.org/tis/info/rfite1.html> for some info on telephone interference.

73,
Ed Hare, W1RFI

Date: Tue, 10 Aug 1999 08:59:01 -0500
From: Karl.Kanalz@optelinc.com
To: K2UD@aol.com
Cc: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [47274] Re: BNC's for RG8 and "D" punches
Message-ID: <862567C9.004D3F79.00@hdqsmtp01.optelinc.com>
Mime-Version: 1.0
Content-type: text/plain; charset=us-ascii
Content-Disposition: inline

For a "simple" 3/8-inch hole, such as that for a BNC chassis-mount connector, you can use a 3/8-inch sheet metal drill (available at places like Home Depot, etc.) and get a nice, round, nearly burr-free hole for a LOT less than a Greenlee punch!

Karl K - W8TIF
McKinney, Texas

K2UD@aol.com on 08/09/99 03:37:25 PM

Please respond to K2UD@aol.com

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

cc: (bcc: Karl Kanalz/hdq/0ptel)

Subject: Re: BNC's for RG8 and "D" punches

The standard round Greenlee punches will cost significantly less than the "D" type. I believe it is 5/8" for SO-239 holes. The 3/8" for the BNCs I have I have punched with a Roper Whitney hand punch (kinda expensive, unless you punch a lot of holes!).

Mouser carries Greenlee punches of various types.

GL es 72

Howard Kraus, K2UD

Date: Tue, 10 Aug 1999 07:35:22 -0700
From: David Shalita <af389@lafn.org>
To: "qrp-1@Lehigh.EDU" <qrp-1@Lehigh.EDU>
Subject: [47275] RS-Diodes-Transistors-Tester-22-330
Message-ID: <37B038AA.67F62A84@lafn.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi,

Sorry for second info request, but time on warranty is expiring.

Did anyone reading this digest buy one of these Transistor, diode scr, etc testers from Radio Shack?

Very handy unit when it works.

With fresh hot Duracell batteries,
my tester has stopped working, gives totally wrong answers.
Allows me to instal 2N2222 parts with reversed Emitter and Collector
leads.

My owners manual is lost in my shop.
Can someone please READ YOUR MANUAL
and tell me how long is the WARRANTY?

PLEASE replies to me DIRECTLY as well as group.
Please hurry, my warranty, if 90 days, is running out.

Thanks for any help, 73, W6MIK

--

David Shalita (Dave)
af389@lafn.org
Van Nuys, CA

Date: Tue, 10 Aug 1999 10:15:32 -0500
From: "Randy Jouett" <rules@bellsouth.net>
To: <af389@lafn.org>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [47276] Re: RS-Diodes-Transistors-Tester-22-330
Message-ID: <004f01bee343\$3a310e40\$af66d6d1@spock>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

-----Original Message-----

From: David Shalita <af389@lafn.org>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Date: Tuesday, August 10, 1999 9:38 AM
Subject: RS-Diodes-Transistors-Tester-22-330

Hi Dave,

>Sorry for second info request, but time on warranty is expiring.
>
>Did anyone reading this digest buy one of these
>Transistor, diode scr, etc testers from Radio Shack?

[snip]

I purchased one of these, and I haven't had a problem with the thing. I has a 90-day warranty.

The manual has so many "warnings" and "cautions" that they are too numerous to explain here on qrp-l. It does say that you can get some bogus readings with MOSFET's and JFET's and goes on to tell you how the thing is trying to figure things out, though.

To put all of this in a nutshell, Dave -- you need that manual. Gotta have it; can't live without it; ask Santa for a new one. :^)

The one thing that I find weird, though, is that the thing can't find the anode on a 2N2222. If I were you, I'd return the thing and try to exchange it. You'll probably need the packaging and a receipt, though. Good luck!

72/73,

Randy Jouett, AB5NI

Date: Tue, 10 Aug 1999 11:45:36 EDT
From: Bensondj@aol.com
To: qrp-l@lehigh.edu
Subject: [47277] DSW enclosure- images
Message-ID: <d839e94.24e1a320@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

gang-

Images of the DSW Enclosure kit may now be found at:

<http://smallwonderlabs.com> under 'DSW Series'

72/73- Dave Benson, NN1G

Date: Tue, 10 Aug 1999 11:38:01 +0100
From: Andy C Meng <andymeng@juno.com>
To: qrp-1@lehigh.edu
Subject: [47278] SB-104 extender card
Message-ID: <19990810.113857.12470.9.andymeng@juno.com>

I was recently given a Heathkit SB-104, but it doesn't work. The display on the rig does not change when you turn the tuning knob (it is on the usb, lsb, or cw mode preset). There is no premix signal getting to the counter board, SO I need to test the board the premix signal is generated by. The easiest way to do this is probably to use extender board talked about in the manual to help trouble-shoot.

I would like to ask if someone who has an extender board would contact me.
Many TNX to all for reading.

Andy KC8KFI Cincinnati, OH
total HF QRP CW contacts: ~38
SW40+ running 1-2W into a dipole at 24 ft -- straight key
projects: IR start timer for dirt bike track, restoring SB-104 to working condition, wirebrushing tower, getting K10 keyer working

Get the Internet just the way you want it.
Free software, free e-mail, and free Internet access for a month!
Try Juno Web: <http://dl.www.juno.com/dynoget/tagj>.

Date: Tue, 10 Aug 1999 11:58:18 -0400
From: "BC" <bcrow@powerlink.net>
To: <n2zhy@amsat.org>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [47279] Re: K2K Special Event
Message-ID: <006a01bee349\$2a879940\$74c59ad0@0f9dh>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hey ho all --

Interesting on the special call signs. For everyone's information, there will be four of us operating during the last week of 1999 and the first week of 2000 with the following calls: W2K (me), K2K, N2K and K2Y. We'll be celebrating Y2K, and hope to have a certificate for working all of us. Watch for us on SKN.

72/73 de Bill, K1NIT

-----Original Message-----

From: David Hurley,n2zhy <n2zhy@amsat.org>

To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Date: Monday, August 09, 1999 9:15 PM

Subject: K2K Special Event

>The Great Pumpkin giveth and taketh away.

>

>I just figured out that it is already tomorrow and I have to
>relinquish the K2K special event call. The bands have been
>kind of crummy up this end of the states. 20 was slow and
>40 was very noisy tonight. I spent some time on 20 meters
>and worked Spain, Brazil, Russia and Princeton Junction(long
>path). {For those out of the area, Princeton Junction is
>about 3 miles away} All contacts were 5 watts qrp, Russia
>was ssb and the others were cw.

>

>Not much of a showing but I'm saving myself for a yet to be
>named big contest next year. Anyway these contacts will be
>added to the ones from the weekend.

>

>An interesting bit of info came from Dick, k2reb;

>

>> We had a special event station using K2K at the Putnam County, NY 4-H >
Fair in July of 1998.

>

>I guess these special calls have an on the shelf life. That
>may be of interest to those planning bigger events. There
>might be some confusion factor in there somewhere.

>

>So, thanks to everyone that tried. Kind of makes the coming
>Fox Hunts look easy!

>

>72

>David,n2zhy

>Princeton,NJ

Date: Tue, 10 Aug 1999 08:08:37 -0500
From: "Joel Kluender, NF9K" <nf9k@eudoramail.com>
To: qrp-l@lehigh.edu
Subject: [47280] Transmission Line Questions
Message-ID: <HCCLKJPHGAJIMAAA@shared1-mail.whowhere.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

All,

I have two questions which I'm hoping someone on this list knows the answer to:

(1) What is the loss, in dB/100 ft, of a transmission line of tightly clamped (parallel) No. 16 H Thermaleze wire?

(2) What happens to the characteristic impedance of a transmission line when you change from two tightly clamped parallel wires to two tightly twisted wires of the same wire type?

Thanks,
Joel NF9K

Joel Kluender, NF9K
870 Prairie Street S.
Shakopee, MN 55379

Great is the Lord, and worthy of praise!

Join 18 million Eudora users by signing up for a free Eudora Web-Mail account at <http://www.eudoramail.com>

Date: Tue, 10 Aug 1999 11:09:30 -0500
From: "Joel Kluender, NF9K" <nf9k@eudoramail.com>
To: qrp-l@lehigh.edu
Subject: [47281] Transmission Line Questions
Message-ID: <GPDENEPEFOCJMAAAA@shared1-mail.whowhere.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

All,

I tried to send this earlier today but doesn't seem to have made it to the list, so I'll try again.

Two questions:

(1) What is the loss in dB/100ft for a transmission line of tightly clamped No 16 H Thermaleze wire?

(2) Jerry W2FMI's book lists the impedance of such a parallel pair as being around 50 ohms (he uses it in some of his balun designs). What happens to the impedance if one twists the wires tightly instead of clamping them in parallel? To first order, I would think its about the same. Please correct me if I'm wrong.

Thanks,

Joel

Joel Kluender, NF9K
870 Prairie Street S.
Shakopee, MN 55379

Great is the Lord, and worthy of praise!

Join 18 million Eudora users by signing up for a free Eudora Web-Mail account at <http://www.eudoramail.com>

Date: Tue, 10 Aug 1999 13:35:29 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: QRP-L@Lehigh.edu
Subject: [47282] [Fwd: Re: Portable vertical idea]
Message-ID: <37B062E1.4E47@erols.com>
MIME-Version: 1.0
Content-Type: message/rfc822
Content-Transfer-Encoding: 7bit
Content-Disposition: inline

Message-ID: <37B06267.2708@erols.com>
Date: Tue, 10 Aug 1999 13:33:27 -0400
From: Bruce Muscolino <w6toy@erols.com>
Reply-To: w6toy@erols.com

X-Mailer: Mozilla 3.01C-KIT (Win95; I)
MIME-Version: 1.0
To: David J Zolin <kb3dzh@juno.com>
Subject: Re: Portable vertical idea
References: <19990810.125441.-4093625.0.KB3DZH@juno.com>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

David,

>

> Sorry to seem like such a dummy, but I don't want to remain one.

>

You aer not being a dummy. My instructioons were not that clear. Lets see if I can do it better! The original application of this was in making dipoles at VHF and UHF frequencies.

Measure a one quarter wavelength of wire, with a bit extra for trimming. Strip back the outer covering for !/2 the lenght. Make a small hole in the braid, don't cut it, just poke a hole in it. Pull the center coonductor all the way out. Now you have two pieces of wire with a feedline attachen, a center conductor and the braid. If you spread them out into a dipole you have a dipole with the feedline attached.

x-----x-----coilled
1/2 wavelength between x's

x-----y-----x-----coilled
strip outer cover from 1/w wavelength (y)

x-----y-----x-----coilled
poke hole at Y and pull center conductor out at y

x-----y-----x
center x shield
x
coilled

Did I do any better this time?

73

Date: Tue, 10 Aug 1999 10:41:28 -0700
From: Allan G Taylor <k7gt@arrl.net>
To: qrp-l@lehigh.edu
Subject: [47283] EE texts, farewell to QRP-L

Message-ID: <37B06448.266D@arrl.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

There was not much response to my recent post. But... here is what I did receive.

Horowitz and Hill, The Art of Electronics was recommended as a good Electronics reference

Bernard Grob, Basic Electronics, 8th ed
Hardcover 8th edition (December 1996)
Glencoe McGraw Hill; ISBN: 002802253X
was recommended by KF4VOP from his student days

Sedra and Smith's "Microelectronic Circuits", 4th Ed is highly recommended by VA3VNS at the Univ of Toronto.

No recommendations were received for a book on network/circuit analysis. I guess it is just not anyone's favorite thing to do <vbg>...

Another item:

I will be monitoring QRP-L very little, if at all, over the next several months. Instead, I will be up to my neck in preparing and teaching both a math and physics class at the local j.c. (Las Positas College, Livermore CA) in addition to my day job banging bits and bytes at LLNL. I still hope to get on the air from time to time in addition to finishing the plethora of incomplete projects (K2, SW40 or two, SST/20m) but QRP-L will be off just to survive!

If you hear me on the air, QRP or QRO, please give me a shout. I might even bump into Chuck with his 950 mW sig now that he is going to be closer to grid square CM97!

73, never anything less, to all my friends!

Allan K7GT

home email: k7gt@qsl.net
work email: k7gt@arrl.net

--

```

                                     |
                                   /|
                                 /  |
                                /   |
Allan Taylor  K7GT                | /Z | \   FISTS 3222 ARS 228
    k7gt@arrl.net                /| /599| \   DXCC and WAS 40/cw
Pleasanton CA  CM97aq            /_||/____|__\_ http://www.qsl.net/k7gt
...QRO, QRP, or barefoot..... [\--=====~/
~~~~~
```

Date: Tue, 10 Aug 1999 14:01:16 -0400
From: "Ed Tanton" <n4xy@att.net>
To: "QRP-L Reflector" <qrp-l@Lehigh.EDU>
Cc: "Prof.Arnaldo Coro Antich" <inforhc@mail.infocom.etecsa.cu>
Subject: [47284] Eclipse stuff-OK it's not QRP
Message-ID: <NBBBJDEEIFDDANGEGHLBOEKCGIAA.n4xy@att.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

OK... I know it's not QRP... but it sure is interesting-to me at least:

NASA Space Science News for August 10, 1999

Two stories:

Scientists drawn to midday darkness near Transylvania: Watching a solar eclipse in the foothills of Transylvania might sound like a scriptwriter's concept for a bad science fiction movie, but it's part of the plan for some serious science and science education. FULL STORY at http://science.nasa.gov/newhome/headlines/ast10aug99_2.htm

Don't forget the partial eclipse! The maritime provinces of Canada and the east coast of the USA could experience interesting shadow effects from the partial eclipse near sunrise on August 11. The story includes information about where the eclipse can be seen in North America and how to safely observe partial eclipses. FULL STORY at http://science.nasa.gov/newhome/headlines/ast10aug99_1.htm

72 / 73 Ed N4XY email: <n4xy@arrl.net>

Date: Tue, 10 Aug 1999 15:01:54 -0400
From: "Ed Tanton" <n4xy@att.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [47285] RE: Enclosure material for antenna tuners?
Message-ID: <NBBBJDEEIFDDANGEGHLBIEKGGIAA.n4xy@att.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

This came off as AWFULLY lofty... my only excuse is it was late, and I was REALLY tired. I already apologized to Steve for the 'tone'. The facts were straight, but very poorly presented.

72 / 73 Ed N4XY email: <n4xy@arrl.net>

Date: Tue, 10 Aug 1999 14:09:02 -0500
From: applitech@mcg.net (Claton Cadmus)
To: "MNQRP-L" <mnqrp-1@qth.net>, "QRP-1" <qrp-1@lehigh.edu>
Subject: [47286] IC-251 manual needed
Message-ID: <096701bee363\$ecb4ec60\$a10a5e2c@groucho>

I need a copy of the user and/or the service manuals for an Icom IC-251 2 meter all mode rig. Please email direct if you can help.

Thanks and 73 de KA0GKC Claton Cadmus
cla@mcg.net Minneapolis, MN

Date: Tue, 10 Aug 1999 12:24:57 -0700
From: Andy Fox <foxes@theriver.com>
To: QRP <qrp-1@Lehigh.EDU>
Subject: [47287] Inductors are Gone!
Message-ID: <37B07C89.2270901C@theriver.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi,

Thanks for all the interest. The inductors are en route to the first person who responded.

73 de

--

Andy Fox - KK7HV - Tucson, AZ USA - DM42 - QRP-L #1286

Date: Tue, 10 Aug 1999 13:51:13 -0600
From: Larry East <w1hue@amsat.org>
To: qrp-l@lehigh.edu
Subject: [47288] QRP-PLUS Mod Error
Message-ID: <3.0.3.32.19990810135113.0092be10@axp1>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

It has been brought to my attention (by Bill Lazure, W2EM and Brian Kassel, W5VB0) that there is an error in Figure 3 of my article "Modifications and Enhancements for the QRP PLUS Transceiver (Part I ...)" that appeared in the January, 1997 issue of the ARCI QRP Quarterly. The figure in question shows my modification to reduce the high frequency roll-off of the analog SCAF prefilter for SCAF bandwidths less than 1us. Unfortunately, the circuit as shown in the figure will not work - audio output will be lost completely at bandwidth settings of 1us and below! The problem is that the diode and 10K resistor shown on the output of U3 are on the wrong side of the capacitors - the diode should connect to U3 pin 6 rather than pin 7.

The correct schematic will be published in the October QRP Quarterly and hopefully posted on the ARCI WEB site. If you tired the mod, couldn't get it to work, and want the correct schematic ASAP, I can email a GIF file to you.

I am a bit amazed, to say the least, that it took over two years for someone to bring this problem to my attention! Either: a) No one else tired the mod, b) folks who tried it figured out how to make it work anyway, or c) when it didn't work, folks just assumed that I was full of crap and gave up! :-)

72, Larry W1HUE/7

Date: Tue, 10 Aug 1999 15:51:10 -0400

From: "Ed Hare, W1RFI" <w1rfi@arrl.net>
To: qrp-1@lehigh.edu
Subject: [47289] ARRL Tech Info Web Pages
Message-ID: <37B082AE.409B@arrl.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi, guys and gals.

The ARRL Tech Info Web pages were just updated and reformatted. Take a look at <http://www.arrl.org/tis/> and tell me what you think.

We still have some work to do; our bibliographies were last updated at the end of 1995, and I want to add LOTS more info packages, but we have a fair start. Let me know how you think we could improve things, what things we could add, etc.

Most of the articles mentioned on the pages (not in the bibliographies) are available for download (pdf). The Product Review pages are on the ARRL members-only site (sorry). We hope to make more articles available, especially in the antennas area.

Enjoy.

73,
Ed Hare, W1RFI
ARRL Lab

Date: Tue, 10 Aug 1999 16:00:06 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [47290] Re: [Fwd: Re: Portable vertical idea]
Message-ID: <37B084C5.53F0@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Gang,

One more thought. The resulting dipole will not be the strongest of all antennas. The braid especially will be subject to fractures which will reduce its strength and its efficiency. I would strongly recommend

that you tape the wire assemblies, both center conductor and braid, to a length of nylon rope before trying to use it at HF!

73

```
>
> Measure a one quarter wavelength of wire, with a bit extra for
> trimming. Strip back the outer covering for !/2 the lenght. Make a
> small hole in the braid, don't cut it, just poke a hole in it. Pull the
> center coonductor all the way out. Now you have two pieces of wire with
> a feedline attachen, a center conductor and the braid. If you spread
> them out into a dipole you have a dipole with the feedline attached.
>
> x-----x-----coilled
>      1/2 wavelength between x's
>
> x-----y-----x-----coilled
>      strip outer cover from 1/w wavelength (y)
>
> x-----y-----x-----coilled
>      poke hole at Y and pull center conductor out at y
>
> x-----y-----x
>      center      x      shield
>                  x
>                  coilled
>
> Did I do any better this time?
>
> 73
```

Date: Tue, 10 Aug 1999 16:19:09 -0500
From: "DONALD G. DORN" <DDORN@CWIS.NET>
To: Low Power Amateur Radio Discussion <QRP-L@LEHIGH.EDU>
Cc: DDORN@CWIS.NET
Subject: [47291] OKIE FOX HUNT TEAM
Message-ID: <37B0974D.59AB@CWIS.NET>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Howdy,
Clif, AB5UA, and I are looking for two more members to form a Fox Hunt team. If you are interested, or if you are weak minded and could possibly be talked into it, shoot me an email.

Don K5AAR Lake Eufaula, OK
MAILTO:DDORN@CWIS.NET

Date: Tue, 10 Aug 1999 17:50:36 -0400
From: "Wilford D. Lindsey" <70511.3041@compuserve.com>
To: QRP-L Discussion Group <QRP-L@Lehigh.edu>
Cc: "W.D.(Doc)Lindsey/K0EVZ" <70511.3041@compuserve.com>
Subject: [47292] Address for Jade Products?
Message-ID: <199908101753_MC2-8083-A55@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
Content-Type: text/plain;
 charset=us-ascii
Content-Disposition: inline
Content-Transfer-Encoding: 7bit

Gang:

Can someone help with a mailing address for Jade Products of E. Hampstead,
NH? According to World Radio (display ad on p. 18 of the August 99 issue),
it is:

Jade Products, Inc.
E. Hampstead, NH 03826-0368

EG, no street nor US Postal box number is cited. Is this all of it, or is
there perhaps more? Want to have it right before sending for one of their
products.

Thanks in advance, everyone.

72,
--Doc Lindsey/K0EVZ
DSBF
PO BOX 6028
Bismarck, ND 58506
70511.3041@compuserve.com

Need the

Date: Tue, 10 Aug 1999 15:03:48 -0700
From: Bill Jones <kd7s@psnw.com>
To: 70511.3041@compuserve.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Subject: [47293] Re: Address for Jade Products?

Message-ID: <37B0A1C3.5CFB2A6D@psnw.com>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Content-Transfer-Encoding: 7bit

According to their web site, their mailing address for orders is:

JADE PRODUCTS, Inc

PO BOX 368

EAST HAMPSTEAD, NH 03826-0368

You can log onto their web site to confirm at:

<http://www.jadeprod.com/ordrinfo.html>

"Wilford D. Lindsey" wrote:

> Gang:

>

> Can someone help with a mailing address for Jade Products of E. Hampstead,

> NH? According to World Radio (display ad on p. 18 of the August 99 issue),

> it is:

>

> Jade Products, Inc.

> E. Hampstead, NH 03826-0368

>

> EG, no street nor US Postal box number is cited. Is this all of it, or is

> there perhaps more? Want to have it right before sending for one of their

> products.

>

> Thanks in advance, everyone.

>

> 72,

> --Doc Lindsey/K0EVZ

> DSBF

> PO BOX 6028

> Bismarck, ND 58506

> 70511.3041@compuserve.com

>

> Need the

--

=====

Bill Jones - KD7S <><

Sanger, California

<http://www.psnw.com/~kd7s>

=====

Date: Tue, 10 Aug 1999 18:44:02 EDT
From: K4NK@aol.com
To: Qrp-l@lehigh.edu
Subject: [47294] F/S Swap
Message-ID: <93033781.24e20532@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Ten-Tec Collectors.....I have a excellant Ten-Tec Pm-3 with
original papers and box. No mods or damage, one of the best i've seen. Any
offers of cash or swap please E-mail me direct. Thank You.

Les K4NK

End of QRP-L Digest 1544

